

ABSTRACT

A single device, of which structural size is minimized, allows it to provide a method of driving a spindle motor, a spindle motor driving circuit, a method of driving a magnetic disk, and a magnetic disk device, each for driving a spindle motor in an optimal driving mode or with optimal driving characteristics according to a command from a higher level system or a type of an application in use. According to the command from the higher level system, a driving mode switching unit in a spindle motor driving circuit switches driving of the spindle motor between a pulse-width modulation driving mode by a pulse-width modulation driving means and a linear driving mode by a linear driving means. Thus, a single spindle motor driving circuit can provide driving in a driving mode suitable for an intended use.